Pavement Markings
# Pavement Markings

<table>
<thead>
<tr>
<th>NO.</th>
<th>DATE</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM-110</td>
<td>04-21-20</td>
<td>Line Types</td>
</tr>
<tr>
<td>PM-111</td>
<td>04-21-20</td>
<td>Symbols and Legends</td>
</tr>
<tr>
<td>PM-120</td>
<td>10-21-14</td>
<td>Stop Lines and Islands</td>
</tr>
<tr>
<td>PM-210</td>
<td>10-19-21</td>
<td>Separation in Two-Lane Roadway</td>
</tr>
<tr>
<td>PM-211</td>
<td>10-19-21</td>
<td>Separation in Four-Lane Roadway</td>
</tr>
<tr>
<td>PM-220</td>
<td>10-18-16</td>
<td>Passing Lane</td>
</tr>
<tr>
<td>PM-221</td>
<td>10-18-16</td>
<td>Climbing Lane</td>
</tr>
<tr>
<td>PM-222</td>
<td>10-15-19</td>
<td>Passing Lane (Super Two Highway)</td>
</tr>
<tr>
<td>PM-230</td>
<td>10-15-19</td>
<td>Transition at Abrupt Changes in Pavement Width</td>
</tr>
<tr>
<td>PM-240</td>
<td>04-20-21</td>
<td>Railroad Crossing on Two-Lane Roadway</td>
</tr>
<tr>
<td>PM-242</td>
<td>04-20-21</td>
<td>Railroad Crossing on Four-Lane Roadway</td>
</tr>
<tr>
<td>PM-310</td>
<td>10-18-22</td>
<td>Entrance and Exit Ramps</td>
</tr>
<tr>
<td>PM-420</td>
<td>10-15-19</td>
<td>Two-Lane Roadway with no Turn Lanes (One-Way Stop Condition)</td>
</tr>
<tr>
<td>PM-520</td>
<td>10-15-19</td>
<td>Two-Lane Roadway with no Turn Lanes (Two-Way Stop Condition)</td>
</tr>
<tr>
<td>PM-521</td>
<td>10-15-19</td>
<td>Two-Lane Roadway with Right Turn Lanes</td>
</tr>
<tr>
<td>PM-522</td>
<td>04-16-19</td>
<td>Two-Lane Roadway with Left Turn Lanes</td>
</tr>
<tr>
<td>PM-550</td>
<td>10-15-19</td>
<td>Two-Lane Roadway with Two-Way Left Turn Lane</td>
</tr>
<tr>
<td>PM-560</td>
<td>10-15-19</td>
<td>Divided Multi-Lane Roadway with no Turn Lanes</td>
</tr>
<tr>
<td>PM-561</td>
<td>10-15-19</td>
<td>Divided Multi-Lane Roadway with Right Turn Lanes</td>
</tr>
<tr>
<td>PM-562</td>
<td>10-15-19</td>
<td>Divided Multi-Lane Roadway with Left Turn Lanes</td>
</tr>
<tr>
<td>PM-620</td>
<td>10-15-19</td>
<td>Two-Lane Roadway with no Turn Lanes (Four-Way Stop Condition)</td>
</tr>
<tr>
<td>PM-650</td>
<td>10-15-19</td>
<td>Multi-Lane Roadway with Two-Way Left Turn Lane</td>
</tr>
<tr>
<td>PM-760</td>
<td>10-15-19</td>
<td>Divided Multi-Lane Roadway Median</td>
</tr>
</tbody>
</table>
Lane layouts shown are typical.

Centerlines and lane lines may be painted either side of centerline.

Drawings on sheets 1 and 2 are oriented to represent direction of traffic moving from left to right.

Possible Contract Item: Pavement Marking Line Items

Possible Tabulation: PM-110 108-22
**LINE TYPES**

- **DLY4**: DOTTED LINE (Yellow)
- **DYD4**: DOUBLE DOTTED LINE (Yellow)
- **DLW4**: DOTTED LINE (White)
- **CHY8**: CHANNELIZING LINE (Yellow)
- **CHW8**: CHANNELIZING LINE (White)
- **LDW8**: LANE DROP (White)
- **SLW2**: STOP LINE (White)
- **YLW2**: YIELD LINE (White)
- **CBW6**: CROSSWALK BAR (White)
- **CLW6**: CROSSWALK LINE (White)
Apply paint from back of curb to gutter line.

SPW4 > SLOPED CURB 4" (White)

SPW6 > SLOPED CURB 6" (White)

STW6 > STANDARD CURB 6" (White)

SPY4 > SLOPED CURB 4" (Yellow)

SPY6 > SLOPED CURB 6" (Yellow)

STY6 > STANDARD CURB 6" (Yellow)

MNY4 > MEDIAN NOSE (Yellow)
Layouts shown are for typical installations. Drawings are oriented to represent direction of traffic moving from left to right.

Center markings within the lane.

All dimensions shown are nominal. For proper proportion details, see current MUTCD Standard Highway Signs and Markings booklet.

Pavement word, symbol, and arrow markings are to be proportionally scaled to fit within the width of the facility upon which they are applied.

Except for the SCHOOL word marking, all markings are to be no more than one lane in width.

Add template for Right Turn Arrow (RTAW) to Left Turn Arrow (LTAW) or Combined Straight and Left Turn Arrow (CSLW) to create new templates.

Possible Contract Item:
- Pavement Marking Symbols and Legends Items

Possible Tabulation:
- 108-29
When placed across one lane, use the smaller dimensions shown. When placed across two lanes, use the larger dimensions shown.
CASE 'A'
NO ISLAND

CASE 'B'
ISLAND AND W < 10 FT.

CASE 'C'
ISLAND AND W ≥ 10 FT.

**LEGEND**
- **CHW8** Channelizing Line (White)
- **SLW2** Stop Line (White)
- **SPW6** Sloped Curb 6" (White)
- **STW6** Standard Curb 6" (White)
- **SPW4** Sloped Curb 4" (White)

**DESIGNER INFORMATION**
Place Stop Line perpendicular to radius and parallel to Thru Roadway.

For line information, see **PM-110**.

For Island information, see **PV-20**.

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
108-22
For line information, see PM-110.

1. If less than 400 feet, join solid yellow lines.

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
108-22
Paint the edge line along the taper and 50 feet of the parallel curbing. If the distance between edge lines is 100 feet or less, connect them.

If less than 400 feet, join solid yellow lines.

The offset distance from centerline, \( W \), can be either the entire width of the offset if the offset is all to one side, or it is the larger of the two partial offsets if the entire width of the offset is split between the two directions of traffic. Measure \( W \) from the midpoint of the centerline to the outside edge of the painted curb.

### RAISED MEDIANS

**LEGEND**
- Centerline Extension: ELW4
- Edge Line Right (White): ELY4
- No Passing Zone Line (Yellow): NPY4
- Broken Centerline (Yellow): BCY4
- Edge Line Left (Yellow): ELY4
- Double Centerline (Yellow): DCY4

<table>
<thead>
<tr>
<th>Speed (mph)</th>
<th>6'</th>
<th>8'</th>
<th>10'</th>
<th>12'</th>
<th>14'</th>
<th>16'</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>200</td>
<td>200</td>
<td>210</td>
<td>250</td>
<td>300</td>
<td>340</td>
</tr>
<tr>
<td>35</td>
<td>250</td>
<td>330</td>
<td>410</td>
<td>490</td>
<td>580</td>
<td>660</td>
</tr>
<tr>
<td>45</td>
<td>540</td>
<td>720</td>
<td>900</td>
<td>1080</td>
<td>1260</td>
<td>1440</td>
</tr>
<tr>
<td>55</td>
<td>660</td>
<td>880</td>
<td>1100</td>
<td>1320</td>
<td>1540</td>
<td>1760</td>
</tr>
<tr>
<td>65</td>
<td>780</td>
<td>1040</td>
<td>1300</td>
<td>1560</td>
<td>1820</td>
<td>2080</td>
</tr>
</tbody>
</table>

\( W \) = offset distance from centerline.
OFFSET ALL TO ONE SIDE

OFFSET SPLIT BETWEEN SIDES

OFFSET SPLIT BETWEEN SIDES

FLUSH MEDIANS

LEGEND

- Direction of Traffic
- BLW4 Broken Lane Line (White)
- CHY8 Channelizing Line (Yellow)
- ELW4 Edge Line Right (White)
- DCY4 Double Centerline (Yellow)

For line information, see PM-110.

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
108-22

SEPARATION IN FOUR-LANE ROADWAY

REVISIONS:
Changed SPY6 and STY6 line types to ELY4 on Sheet 2.
Paint the edge line along the taper and 50 feet of the parallel curbing. If the distance between edge lines is 100 feet or less, connect them.

**LEGEND**

- **Direction of Traffic**
- **ELW4** Edge Line Right (White)
- **BLW4** Broken Lane Line (White)
- **ELY4** Edge Line Left (Yellow)
- **DCY4** Double Centerline (Yellow)
Possible Contract Item:
Pavement Marking Line Items
Type 'A' Signs

Possible Tabulation:
108-22

LEGEND

- Direction of Traffic
- ELW4: Edge Line Right (White)
- BCY4: Broken Centerline (Yellow)
- DLW4: Dotted Line (White)
- BLW4: Broken Lane Line (White)
- NPY4: No Passing Zone Line (Yellow)
For line information, see PM-110.

If distance X is less than 3000 feet, omit last R4-3 sign. If distance X is greater than 5250 feet, place R4-3 signs at 2250 foot intervals.

Possible Contract Item:
- Pavement Marking Line Items
  - Type 'A' Signs

Possible Tabulation:
108-22

LEGEND
- Direction of Traffic
- ELW4 Edge Line Right (White)
- BCY4 Broken Centerline (Yellow)
- NPY4 No Passing Zone Line (Yellow)
- BLW4 Broken Lane Line (White)
Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
108-22

For line information, see PM-110.

On the approach to a narrower bridge or pavement section, place edge lines on a diagonal from a point 300 feet from the bridge to the gutter line of the bridge.

LEGEND

- Direction of Traffic
- BCY4 Broken Centerline (Yellow)
- ELW4 Edge Line Right (White)

W
300'

Equal to or greater than W + 2'

Narrower Bridge or Pavement Section
Possible Tabulations:
- Pavement Marking Line Items
- Pavement Marking Symbol and Legend Items

Possible Contract Items:
- 108-22
- 108-29

Legend:
- ELW4: Edge Line Right (White)
- NPY4: No Passing Zone Line (Yellow)
- RRCW: Railroad Crossing Symbol (White)
- SLW2: Stop Line (White)
- Railroad Panel

For line information, see PM-110.
For symbol and legend information, see PM-111.

1. Location of Grade Crossing Advance Warning sign (W10-1). See SI-241.
2. Do not place pavement markings on Railroad Panel.
Possible Contract Items:
Pavement Marking Line Items
Pavement Marking Symbol and Legend Items

Possible Tabulations:
108-22
108-29

CROSSING WITH CROSSING SIGNAL

LEGEND
- Direction of Traffic
- ELW4 Edge Line Right (White)
- BLW4 Broken Lane Line (White)
- RRCW Railroad Crossing Symbol (White)
- DCY4 Double Center Line (Yellow)
- SLW2 Stop Line (White)
- Railroad Panel

Location of Grade Crossing Advance Warning sign (W10-1). See SI-241.

Do not place pavement marking on Railroad Panel.

For line information, see PM-110.
For symbol and legend information, see PM-111.
For line information, see **PM-110**.

**LEGEND**

- **Direction of Traffic**
  - BLW4: Broken Lane Line (White)
  - CHW8: Channelizing Line (White)
  - ELY4: Edge Line Right (Yellow)
  - ELW4: Edge Line Left (White)

- **Mainline Markings**
  - DLW4: Dotted Line (White)
  - ELY4: Edge Line Left (Yellow)
  - ELW4: Edge Line Right (White)

- **Ramp Markings**
  - RLY4: Ramp Edge Line Left (Yellow)
  - RLW4: Ramp Edge Line Right (White)
  - LDW8: Lane Drop (White)

**Possible Contract Item:**
Pavement Marking Line Items

**Possible Tabulation:**
 **108-22**
PARALLEL ENTRANCE RAMP

PARALLEL EXIT RAMP

LEGEND

- Direction of Traffic
- BLW4 Broken Lane Line (White)
- CHW8 Channelizing Line (White)
- DLW4 Dotted Line (White)
- ELY4 Edge Line Left (Yellow)
- ELW4 Edge Line Right (White)
- LDW8 Lane Drop (White)
- RLY4 Ramp Edge Line Left (Yellow)
- RLW4 Ramp Edge Line Right (White)
TWO LANE EXIT RAMP WITH PARALLEL DECELERATION LANE

TWO LANE EXIT RAMP WITH LANE DROP

LEGEND

- Direction of Traffic
- BLW4 Broken Lane Line (White)
- CHW8 Channelizing Line (White)
- ELY4 Edge Line Left (Yellow)
- ELW4 Edge Line Right (White)
- LDW8 Lane Drop (White)
- DLW4 Dotted Line (White)
- RLY4 Ramp Edge Line Left (Yellow)
- RLW4 Ramp Edge Line Right (White)

Full Width Deceleration Lane
1/2 Deceleration Lane Length
Taper Length

Normal Lane Width
1/2 Deceleration Lane Length
Full Width Deceleration Lane 1/2 Mile Minimum Length

Paved Gore
TWO LANE EXIT RAMP WITH DOUBLE PARALLEL DECELERATION LANE

LEGEND

- **Direction of Traffic**
- **BLW4** Broken Lane Line (White)
- **CHW8** Channelizing Line (White)
- **DLW4** Dotted Line (White)
- **ELY4** Edge Line Left (Yellow)
- **ELW4** Edge Line Right (White)
- **LDW8** Lane Drop (White)
- **RLW4** Ramp Edge Line Right (White)
- **RLY4** Ramp Edge Line Left (Yellow)
TWO LANE ENTRANCE RAMP WITH SINGLE PARALLEL ACCELERATION LANE

LEGEND

- Direction of Traffic
- BLW4 Broken Lane Line (White)
- CHW8 Channelizing Line (White)
- DLW4 Dotted Line (White)
- ELY4 Edge Line Left (Yellow)
- ELW4 Edge Line Right (White)
- LDW8 Lane Drop (White)
- RLW4 Ramp Edge Line Right (White)
- RLY4 Ramp Edge Line Left (Yellow)

- Taper Length
- Full Width Acceleration Lane
- Ramp Width
- Normal Lane Width
- Paved Gore

Definded starting and stopping location between mainline and ramp markings.
TWO LANE ENTRANCE RAMP WITH DOUBLE PARALLEL ACCELERATION LANE

LEGEND

- Direction of Traffic
- BLW4: Broken Lane Line (White)
- CHW8: Channelizing Line (White)
- DLW4: Dotted Line (White)
- ELY4: Edge Line Right (White)
- ELW4: Edge Line Left (White)
- LDW8: Lane Drop (White)
- RLY4: Ramp Edge Line Right (White)
- RLW4: Ramp Edge Line Left (Yellow)

Taper Length
Variable Length Parallel Acceleration Lane (Double Lane)
Variable Length Parallel Acceleration Lane (Single Lane)
Normal Lane Width
Paved Gore
Match Line

APPROVED BY DESIGN METHODS ENGINEER
Roadways may or may not have edge lines. When the free flow roadway has edge lines but the stop controlled roadway does not, end edge lines at the end of returns (marked by ▲s). When the stop controlled roadway has edge lines but the free flow roadway does not, end edge lines at the end of returns (marked by ◄s). If both roadways have edge lines, continue edge lines around the returns.

For line information, see PM-110.

Broken Centerline changes to No Passing Zone Line or Double Centerline if required by sight distance.

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:

108-22
If Island is not present, continue Centerline.

600' No Passing Zone approaching a Stop Sign Island.
If Island is not present, continue Centerline.

1. Broken Centerline changes to No Passing Zone Line or Double Centerline if required by sight distance.
2. If less than 1000 feet, extend Yellow Line to Stop Line.
3. If less than 400 feet, join Yellow Lines.
4. For Island information, see PM-120.

LEGEND

- **ELW4**: Edge Line Right (White)
- **BCY4**: Broken Centerline (Yellow)
- **NPY4**: No Passing Zone Line (Yellow)
- **DCY4**: Double Centerline (Yellow)
- **SLW2**: Stop Line (White)

**TWO-LANE ROADWAY WITH NO TURN LANES**

(ONE-WAY STOP CONDITION)
Roadways may or may not have edge lines. When the free flow roadway has edge lines but the stop controlled roadway does not, end edge lines at the end of returns (marked by ▲s). When the stop controlled roadway has edge lines but the free flow roadway does not, end edge lines at the end of returns (marked by ▲s). If both roadways have edge lines, continue edge lines around the returns.

Terminate all mainline centerline markings at the edge of the thru lanes of a paved side road.

For line information, see PM-110.

Possible Contract Item:
Pavement Marking Line Items
Possible Tabulation:
108-22
1. If less than 400 feet, join Yellow Lines.
2. If less than 1000 feet, extend Yellow Line to Stop Line.
3. For Island information, see PM-120.

LEGEND

- ▼ Direction of Traffic
- ELW4 Edge Line Right (White)
- BCY4 Broken Centerline (Yellow)
- NPY4 No Passing Zone Line (Yellow)
- DCY4 Double Centerline (Yellow)
- SLW2 Stop Line (White)
- NPY4 (If required by sight distance)
- DCY4 or NPY4 (If required by sight distance)

PAVED AND UNPAVED SIDE ROADS
(If required by sight distance)

1. If less than 400 feet, join Yellow Lines.
2. If less than 1000 feet, extend Yellow Line to Stop Line.
3. For Island information, see PM-120.

600' No Passing Zone approaching a Stop Sign Island.
If Island is not present, continue Centerline.

LEGEND

- Direction of Traffic
- ELW4 Edge Line Right (White)
- BCY4 Broken Centerline (Yellow)
- NPY4 No Passing Zone Line (Yellow)
- DCY4 Double Centerline (Yellow)
- SLW2 Stop Line (White)

PAVED SIDE ROADS

For Island information, see PM-120.
Roadways may or may not have edge lines. When the free flow roadway has edge lines but the stop controlled roadway does not, end edge lines at the end of returns (marked by ▲). When the stop controlled roadway has edge lines but the free flow roadway does not, end edge lines at the end of returns (marked by ▲). If both roadways have edge lines, continue edge lines around the returns.

Terminate all mainline centerline markings at the edge of the thru lanes of the side road.

Start Solid Lane Line for Right Turn Lane at end of taper.

For line information, see PM-110.

For symbol and legend information, see PM-111.

1. If less than 400 feet, join Yellow Lines.
2. If less than 1000 feet, extend Yellow Line to Stop Line.
4. For Island information, see PM-120.

Possible Contract Items:
- Pavement Marking Line Items
- Pavement Marking Symbol and Legend Items

Possible Tabulations:
- 108-22
- 108-29

**LEGEND**

- **NPY4** No Passing Zone Line (Yellow)
- **SLW4** Stop Line (White)
- **SLW2** Solid Lane Line (White)
- **BCY4** Broken Centerline (Yellow)
- **DCY4** Double Centerline (Yellow)
- **ELW4** Edge Line Right (White)

1. ▲ (If required by sight distance)
Roadways may or may not have edge lines. When the free flow roadway has edge lines but the stop controlled roadway does not, end edge lines at the end of returns (marked by a). When the stop controlled roadway has edge lines but the free flow roadway does not, end edge lines at the end of returns (marked by an s). If both roadways have edge lines, continue edge lines around the returns.

Terminate all mainline centerline markings at the edge of the thru lanes of the side road.

For line information, see PM-110.

For symbol and legend information, see PM-111.

Possible Contract Items:
- Pavement Marking Line Items
- Pavement Marking Symbol and Legend Items

Possible Tabulations:
- 108-22
- 108-29

LEGEND

- **Direction of Traffic**
  - **NPY4** No Passing Zone Line (Yellow)
  - **BCY4** Broken Centerline (Yellow)
  - **DCY4** Double Centerline (Yellow)
  - **ELW4** Edge Line Right (White)

- **(if required by sight distance)**

See PM-210 for continuation of separation.
When the dimension becomes less than 2 feet, paint this area solid yellow.

Curbed Channelized Island

Painted Channelized Island

Legend

Direction of Traffic

SLW4 Solid Lane Line (White)

CHY8 Channel Line (Yellow)

SPY6 Sloped Curb 6" (Yellow)

ELW4 Edge Line Right (White)

STY6 Standard Curb 6" (Yellow)
Terminate all mainline centerline markings at the edge of the property line.

Spacing between center of Symbols and Legends used within Left Turn Only Storage Length is 37\frac{1}{2} feet.

For line information, see PM-110.

For symbol and legend information, see PM-111.

Symbol and Legend (when listed in 108-29).

Storage Length to be 150 feet minimum.

Typical spacing (in feet) between sets of arrows should be approximately 10 times the speed limit (MPH) or one set located at mid-block.

Distance from lane line termination to center of Left Turn Only Symbol and Legend is \frac{1}{2} the Storage Length.

Possible Contract Items:
- Pavement Marking Line Items
- Pavement Marking Symbol and Symbol Items

Possible Tabulations:
- 108-22
- 108-29

LEGEND

- **Direction of Traffic**
- **NPY4** No Passing Zone Line (Yellow)
- **DCY4** Double CenterLine (Yellow)
- **SLW2** Stop Line (White)
- **ELW4** Edge Line Right (White)
- **SLW4** Solid Line (White)
For line information, see PM-110.

1. \( W \) is the width between pavement edges. Measure \( W \) from pavement edge to pavement edge. When \( W \) values are different, use the smaller of the two.

2. See PM-760 for markings placed in the median.

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
108-29

LEGEND
- Direction of Traffic
- BLW4 Broken Lane Line (White)
- ELW4 Edge Line Right (White)
- ELY4 Edge Line Left (Yellow)

UNPAVED SIDE ROAD
1. \( W \) is the width between pavement edges. Measure \( W \) from pavement edge to pavement edge. When \( W \) values are different, use the smaller of the two.

2. See PM-760 for markings placed in the median.

3. If less than 400 feet, join Yellow Lines.

4. If less than 1000 feet, extend Yellow Line to Stop Line.

5. When the free flow roadway has edge lines but the stop controlled roadway does not, end edge lines at the end of returns (marked by \( \# \)). If both roadways have edge lines, continue edge lines around the returns.

6. If Island present, see PM-120.
For line information, see PM-110.

1. \( W \) is the width between pavement edges. Measure \( W \) from pavement edge to pavement edge. When \( W \) values are different, use the smaller of the two.

2. See PM-760 for markings placed in the median.

LEGEND

- Direction of Traffic
- BLW4: Broken Lane Line (White)
- ELW4: Edge Line Right (White)
- ELY4: Edge Line Left (Yellow)
- SLW4: Solid Lane Line (White)

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
108-29
1. \( W \) is the width between pavement edges. Measure \( W \) from pavement edge to pavement edge. When \( W \) values are different, use the smaller of the two.

2. See PM-760 for markings placed in the median.

3. If less than 400 feet, join Yellow Lines.

4. If less than 1000 feet, extend Yellow Line to Stop Line.

5. When the free flow roadway has edge lines but the stop controlled roadway does not, end edge lines at the end of returns (marked by \( * \)). If both roadways have edge lines, continue edge lines around the returns.

6. If Island present, see PM-120.
For line information, see PM-110.

1. $W$ is the width between pavement edges. Measure $W$ from pavement edge to pavement edge. When $W$ values are different, use the smaller of the two.

2. See PM-760 for markings placed in the median.

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
108-29

LEGEND

- **ELW4** Edge Line Right (White)
- **BLW4** Broken Lane Line (White)
- **ELY4** Edge Line Left (Yellow)
- **SLW4** Solid Lane Line (White)

**UNPAVED SIDE ROAD**

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
108-29
1. W is the width between pavement edges. Measure W from pavement edge to pavement edge. When W values are different, use the smaller of the two.

2. See PM-760 for markings placed in the median.

3. If less than 400 feet, join Yellow Lines.

4. If less than 1000 feet, extend Yellow Line to Stop Line.

5. When the free flow roadway has edge lines but the stop controlled roadway does not, end edge lines at the end of returns (marked by m). If both roadways have edge lines, continue edge lines around the returns.

6. If Island present, see PM-120.
Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:

| Title           | 108-22 |

**LEGEND**

- **Direction of Traffic**
- **ELW4** Edge Line Right (White)
- **BCY4** Broken Centerline (Yellow)
- **NPY4** No Passing Zone Line (Yellow)
- **DCY4** Double Centerline (Yellow)
- **SLW2** Stop Line (White)

(if required by sight distance)

1. If less than 400 feet, join Yellow Lines.
2. If less than 1000 feet, extend Yellow Line to Stop Line.
3. If Island present, see PM-120.
**Major Cross Street**
Mainline Stop or Signalized Condition

**Minor Cross Street**
No Mainline Stop or Signalized Condition

---

**LEGEND**

- **Direction of Traffic**
- **NPY4** No Passing Zone Line (Yellow)
- **BLW4** Broken Lane Line (White)
- **SLW2** Solid Lane Line (White)
- **DCY4** Double Centerline (Yellow)
- **SLW4** Stop Line (White)
- **ELW4** Edge Line Right (White)

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**Storage Length**
- Terminate all mainline centerline markings at the edge of the property line.
- Spacing between center of Symbols and Legends used within Left Turn Only Storage Length is 37\(\frac{1}{2}\) feet.

**Legend**
- Symbol and Legend (when listed in 108-29).
- Storage Length: to be 150 feet minimum.
- Typical spacing (in feet) between sets of arrows should be approximately 10 times the speed limit (MPH) or one set located at mid-block.
- Distance from lane line termination to center of Left Turn Only Symbol and Legend is \(\frac{1}{2}\) the Storage Length.

**Possible Tabulations:**
- 108-22
- 108-29

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**Possible Contract Items:**
- Pavement Marking Line Items
- Pavement Marking Symbol and Legend Items

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**STANDARD ROAD PLAN**

**MULTI-LANE ROADWAY**
WITH TWO-WAY LEFT TURN LANE

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**REVISIONS:**
- New logo.

**APPROVED BY DESIGN METHODS ENGINEER**
**LEGEND**

- **Direction of Traffic**
- **DCY4** Double Centerline (Yellow)
- **ELY4** Edge Line Left (Yellow)
- **SLW2** Stop Line (White)
- **YLW2** Yield Line (White)

W is the width between pavement edges. Measure W from pavement edge to pavement edge. When W values are different, use the smaller of the two.

Omit median edge lines if neither connecting side road has painted edge lines.

For line information, see **PM-110**.

Possible Contract Item: Pavement Marking Line Items

Possible Tabulation: 108-29